



EtherNet/IP to ASCII Generic Serial Gateway 5201/5202-DFNT-ASCII(4)

The DFNT-ASCII modules are the ideal solution for the many applications where EtherNet/IP connectivity can be used to integrate ASCII serial devices into a system. The EtherNet/IP gateway is a powerful module designed with both Client and Server support, enabling easy connection to Rockwell Automation PLCs (CLX, SLC, PLC, CPLX, and similar devices). In combination with the ASCII device support, the module provides a very powerful interface to the many ASCII devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

How to Contact Us: Sales and Support

All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

Asia Pacific

+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe – Middle East – Africa

+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America

+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)

+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil

+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

EtherNet/IP to ASCII Generic Serial Gateway

5201/5202-DFNT-ASCII(4)

The ProLinx EtherNet/IP to ASCII Generic Serial Gateway creates a powerful connection between devices on an EtherNet/IP network and ASCII devices. This stand-alone DIN-rail mounted protocol gateway provides a single Ethernet port and up to four ASCII configurable serial ports.

The Ethernet/IP protocol driver supports the Explicit Messaging implementation of the protocol. User-configurable as both a Client and a Server, the EtherNet/IP port is a very powerful data transfer tool.

The ASCII protocol driver permits the module to interface to many ASCII devices. Each ASCII port on the module is configurable to send and/or receive ASCII strings, each supporting its own individual serial network.

EtherNet/IP

The EtherNet/IP protocol is one of the primary connectivity tools to the different Rockwell Automation platforms. The Explicit Messaging aspect of the protocol (only) has been implemented in the ProLinx units to provide the data transfer link between the ProLinx units and the Rockwell Automation hardware.

General Protocol Information

| | |
|---------------|---|
| Messaging | PCCC on CIP Explicit Messaging supported |
| Miscellaneous | 125 word read and write data lengths Floating point data supported |

EtherNet/IP Server Specifications

In Server mode, the module accepts commands from one or more clients to read/write data stored in the module's internal registers.

EtherNet/IP Server Specifications

| | |
|------------------------|--|
| Connections | Five independent TCP server sockets permit remote clients to interact with all data contained in the module. |
| Data File | Data Table File Start – Fixed at N10 Data Table File Size – 100 or 1000 words |
| CIP Services Supported | 0x4C – CIP Data Table Read 0x4D – CIP Data Table Write |

EtherNet/IP Client Specifications

In Client mode, the module controls the read/write data transfer between the gateway and other EtherNet/IP devices. Data transfer can be initiated and executed without any ladder programming being required in the Rockwell Automation hardware.

EtherNet/IP Client Specifications

| | |
|--------------|--|
| General | One client |
| Command List | Support for 100 commands, each configurable for command, IP address, register to/from addressing and word/bit count. |

EtherNet/IP Client Specifications

| | |
|-------------------------|---|
| Polling of command list | User configurable polling of commands, including disabled, continuous and on change of data (write only). |
|-------------------------|---|

ASCII

The ASCII driver provides a powerful connection between the internal application database in the ProLinx unit and devices supporting serial ASCII communications (bar code scanners, line printers, legacy terminal based computer systems, etc).

The serial port on the gateway is user-configurable to support ASCII communications (Baud rate, Data Bits, Stop Bits, etc). The ASCII port can act as a Master (Send ASCII strings) or as a Slave (Receive ASCII strings), or both.

ASCII Specifications

| | |
|----------------------------------|--|
| Ports | Available in up to four port configurations to receive and/or transmit data. |
| Transmit and Receive buffer size | 255 bytes each |
| Transmit character with pacing | 0 to 65535 millisecond delay between each transmitted character. |

General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

Hardware Specifications

| Specification | Description |
|---------------------------------------|---|
| Power Supply | 24 VDC nominal 18 to 36 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade |
| Current Load | 500 mA max@ 24 VDC |
| Operating Temperature | -20 to 50°C (-4 to 122°F) |
| Storage Temperature | -40 to 85°C (-40 to 185°F) |
| Relative Humidity | 5 to 95% (non-condensing) |
| Dimensions | Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD) |
| LED Indicators | Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status |
| Configuration Serial Port | DB-9M RS-232 only No hardware handshaking |
| Ethernet Port (Ethernet modules only) | RJ45 Connector Link and Activity LED indicators |

| Specification | Description |
|--------------------------|--|
| Application Serial Ports | RS-232/422/485 RS-232 handshaking configurable RS-422/485 screw termination included |
| Serial Port Isolation | 2500V RMS port signal isolation per UL 1577 3000V DC min. port to ground and port to logic power isolation |
| Shipped with Each Unit | Mini-DIN to DB-9M serial cables 4 ft RS-232 configuration cable 2.5mm screwdriver CD (docs and Configuration utility) RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports) |

ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations to new projects.

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

| | |
|-------------------------|-------------------------------------|
| 5201-DFNT-ASCII | EtherNet/IP to ASCII Generic Serial |
| 5202-DFNT-ASCII4 | Gateway |

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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North American / Latin American / Asia Pacific
orders@prosoft-technology.com,
fax to +1 661.716.5101

Europe

europe@prosoft-technology.com,
fax to +33 (0) 5.61.78.40.52

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